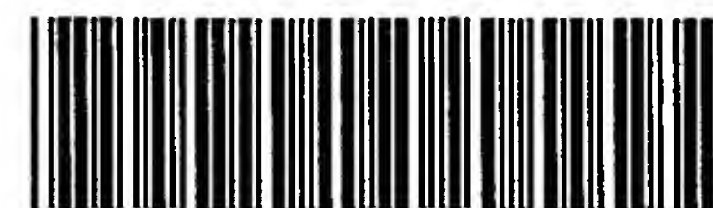


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/563,540  
Source: IFW  
Date Processed by STIC: 5-15-06

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IFWO

## RAW SEQUENCE LISTING

DATE: 05/15/2006

PATENT APPLICATION: US/10/563,540

TIME: 15:18:08

Input Set : A:\toya117.007apc.txt

Output Set: N:\CRF4\05152006\J563540.raw

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3 <110> APPLICANT: Nakayama, Jun
4      Ishizone, Satoshi
6 <120> TITLE OF INVENTION: Method for detecting cancer
8 <130> FILE REFERENCE: TOYA117.007APC
10 <140> CURRENT APPLICATION NUMBER: 10/563,540
11 <141> CURRENT FILING DATE: 2005-12-22
13 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/009126
14 <151> PRIOR FILING DATE: 2004-06-28
16 <150> PRIOR APPLICATION NUMBER: JP 2003-185696
W--> 17 <151> PRIOR FILING DATE: 2003-6-27
19 <160> NUMBER OF SEQ ID NOS: 5
21 <170> SOFTWARE: PatentIn version 3.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 1292
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
28 <220> FEATURE:
29 <221> NAME/KEY: CDS
30 <222> LOCATION: (181)..(1200)
31 <223> OTHER INFORMATION:
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35 gggtatatgt aatttgaaag atagacctgc caagacgtga gatctgtgtt ctccttggtt      120
36 agagctaaca tttttgggtga ggaaagcact gcaggagcag gctggcacag agaagaggac      180
37 atg cgg aag gag ctc cag ctc tcc ctg tca gtc acc ttg ctg ctt gtc      228
38 Met Arg Lys Glu Leu Gln Leu Ser Leu Ser Val Thr Leu Leu Leu Val
39 1          5          10          15
40 tgt ggc ttc ctc tac cag ttc acc ctg aag tcc agc tgc ctc ttc tgt      276
41 Cys Gly Phe Leu Tyr Gln Phe Thr Leu Lys Ser Ser Cys Leu Phe Cys
42          20          25          30
43 ttg cct tct ttc aag tcc cac cag ggg ctg gaa gcc ctc ctg agc cac      324
44 Leu Pro Ser Phe Lys Ser His Gln Gly Leu Glu Ala Leu Leu Ser His
45          35          40          45
46 aga cgt ggc att gtg ttt cta gag acc tca gag aga atg gag cca ccc      372
47 Arg Arg Gly Ile Val Phe Leu Glu Thr Ser Glu Arg Met Glu Pro Pro
48          50          55          60
49 cat ttg gtc tcc tgt tcc gta gag tct gct gcc aag att tat cct gag      420
50 His Leu Val Ser Cys Ser Val Glu Ser Ala Ala Lys Ile Tyr Pro Glu
51 65          70          75          80
52 tgg cct gtg gtg ttc ttt atg aag ggt ctt act gat tcc aca ccg atg      468
53 Trp Pro Val Val Phe Phe Met Lys Gly Leu Thr Asp Ser Thr Pro Met
54          85          90          95
55 ccc tca aac tcc aca tac cca gct ttt tcc ttc ctg tca gca ata gac      516

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TIME: 15:18:08

Input Set : A:\toyal17.007apc.txt

Output Set: N:\CRF4\05152006\J563540.raw

56	Pro	Ser	Asn	Ser	Thr	Tyr	Pro	Ala	Phe	Ser	Phe	Leu	Ser	Ala	Ile	Asp	
57				100					105					110			
58	aac	gtt	ttc	ctc	ttc	cct	ttg	gat	atg	aaa	agg	ctg	ctt	gaa	gac	aca	564
59	Asn	Val	Phe	Leu	Phe	Pro	Leu	Asp	Met	Lys	Arg	Leu	Leu	Glu	Asp	Thr	
60			115					120					125				
61	cca	ttg	ttt	tca	tgg	tac	aat	caa	atc	aac	gcc	agc	gca	gag	aga	aac	612
62	Pro	Leu	Phe	Ser	Trp	Tyr	Asn	Gln	Ile	Asn	Ala	Ser	Ala	Glu	Arg	Asn	
63		130					135					140					
64	tgg	ctc	cac	atc	agc	tcg	gat	gca	tcc	cgc	ctg	gcc	atc	atc	tgg	aaa	660
65	Trp	Leu	His	Ile	Ser	Ser	Asp	Ala	Ser	Arg	Leu	Ala	Ile	Ile	Trp	Lys	
66	145					150				155					160		
67	tac	ggg	ggc	atc	tac	atg	gac	acc	gat	gtc	atc	tcc	atc	agg	ccc	atc	708
68	Tyr	Gly	Gly	Ile	Tyr	Met	Asp	Thr	Asp	Val	Ile	Ser	Ile	Arg	Pro	Ile	
69				165					170				175				
70	cct	gag	gag	aac	ttt	ttg	gct	gcg	cag	gct	tct	cgg	tac	tct	agt	aat	756
71	Pro	Glu	Glu	Asn	Phe	Leu	Ala	Ala	Gln	Ala	Ser	Arg	Tyr	Ser	Ser	Asn	
72			180					185					190				
73	gga	ata	ttt	ggg	ttc	ctc	ccc	cac	cac	ccc	ttt	ttg	tgg	gaa	tgc	atg	804
74	Gly	Ile	Phe	Gly	Phe	Leu	Pro	His	His	Pro	Phe	Leu	Trp	Glu	Cys	Met	
75		195				200						205					
76	gaa	aac	ttt	gtt	gaa	cac	tat	aat	tca	gcc	att	tgg	ggc	aac	caa	ggc	852
77	Glu	Asn	Phe	Val	Glu	His	Tyr	Asn	Ser	Ala	Ile	Trp	Gly	Asn	Gln	Gly	
78		210				215						220					
79	cct	gag	ttg	atg	aca	agg	atg	ttg	agg	gta	tgg	tgt	aaa	ctt	gaa	gac	900
80	Pro	Glu	Leu	Met	Thr	Arg	Met	Leu	Arg	Val	Trp	Cys	Lys	Leu	Glu	Asp	
81	225				230				235				240				
82	ttc	cag	gag	gtg	agc	gac	ctc	agg	tgt	ctg	aac	ata	tcc	ttc	tta	cac	948
83	Phe	Gln	Glu	Val	Ser	Asp	Leu	Arg	Cys	Leu	Asn	Ile	Ser	Phe	Leu	His	
84			245					250				255					
85	ccc	caa	aga	ttt	tac	ccc	atc	tcc	tat	cga	gag	tgg	agg	cgc	tac	tat	996
86	Pro	Gln	Arg	Phe	Tyr	Pro	Ile	Ser	Tyr	Arg	Glu	Trp	Arg	Arg	Tyr	Tyr	
87		260				265					270						
88	gaa	gtg	tgg	gat	aca	gag	cca	agc	ttc	aat	gtc	tct	tat	gcc	ctg	cat	1044
89	Glu	Val	Trp	Asp	Thr	Glu	Pro	Ser	Phe	Asn	Val	Ser	Tyr	Ala	Leu	His	
90		275				280					285						
91	ttg	tgg	aac	cac	atg	aac	cag	gag	ggg	cgg	gct	gtg	att	aga	gga	agc	1092
92	Leu	Trp	Asn	His	Met	Asn	Gln	Glu	Gly	Arg	Ala	Val	Ile	Arg	Gly	Ser	
93		290				295					300						
94	aac	aca	ctg	gtg	gaa	aat	ctc	tat	cgc	aag	cac	tgt	ccc	agg	act	tac	1140
95	Asn	Thr	Leu	Val	Glu	Asn	Leu	Tyr	Arg	Lys	His	Cys	Pro	Arg	Thr	Tyr	
96	305				310				315				320				
97	agg	gac	ctg	att	aaa	ggc	cca	gag	ggg	tca	gtg	act	ggg	gag	ctg	ggc	1188
98	Arg	Asp	Leu	Ile	Lys	Gly	Pro	Glu	Gly	Ser	Val	Thr	Gly	Glu	Leu	Gly	
99			325				330				335						
100	cca	ggt	aac	aaa	taaagctaac	actcggttgc	tgctgctgca	gtgtggaaat									1240
101	Pro	Gly	Asn	Lys													
102			340														
103	ggaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa	1292
106	<210>	SEQ ID NO: 2															

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/563,540

DATE: 05/15/2006

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Input Set : A:\toyall17.007apc.txt

Output Set: N:\CRF4\05152006\J563540.raw

107 &lt;211&gt; LENGTH: 340

108 &lt;212&gt; TYPE: PRT

109 &lt;213&gt; ORGANISM: Homo sapiens

111 &lt;400&gt; SEQUENCE: 2

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114 1          5          10          15
115 Cys Gly Phe Leu Tyr Gln Phe Thr Leu Lys Ser Ser Cys Leu Phe Cys
116          20          25          30
117 Leu Pro Ser Phe Lys Ser His Gln Gly Leu Glu Ala Leu Leu Ser His
118          35          40          45
119 Arg Arg Gly Ile Val Phe Leu Glu Thr Ser Glu Arg Met Glu Pro Pro
120          50          55          60
121 His Leu Val Ser Cys Ser Val Glu Ser Ala Ala Lys Ile Tyr Pro Glu
122 65          70          75          80
123 Trp Pro Val Val Phe Phe Met Lys Gly Leu Thr Asp Ser Thr Pro Met
124          85          90          95
125 Pro Ser Asn Ser Thr Tyr Pro Ala Phe Ser Phe Leu Ser Ala Ile Asp
126          100         105         110
127 Asn Val Phe Leu Phe Pro Leu Asp Met Lys Arg Leu Leu Glu Asp Thr
128          115         120         125
129 Pro Leu Phe Ser Trp Tyr Asn Gln Ile Asn Ala Ser Ala Glu Arg Asn
130          130         135         140
131 Trp Leu His Ile Ser Ser Asp Ala Ser Arg Leu Ala Ile Ile Trp Lys
132 145         150         155         160
133 Tyr Gly Gly Ile Tyr Met Asp Thr Asp Val Ile Ser Ile Arg Pro Ile
134          165         170         175
135 Pro Glu Glu Asn Phe Leu Ala Ala Gln Ala Ser Arg Tyr Ser Ser Asn
136          180         185         190
137 Gly Ile Phe Gly Phe Leu Pro His His Pro Phe Leu Trp Glu Cys Met
138          195         200         205
139 Glu Asn Phe Val Glu His Tyr Asn Ser Ala Ile Trp Gly Asn Gln Gly
140          210         215         220
141 Pro Glu Leu Met Thr Arg Met Leu Arg Val Trp Cys Lys Leu Glu Asp
142 225         230         235         240
143 Phe Gln Glu Val Ser Asp Leu Arg Cys Leu Asn Ile Ser Phe Leu His
144          245         250         255
145 Pro Gln Arg Phe Tyr Pro Ile Ser Tyr Arg Glu Trp Arg Arg Tyr Tyr
146          260         265         270
147 Glu Val Trp Asp Thr Glu Pro Ser Phe Asn Val Ser Tyr Ala Leu His
148          275         280         285
149 Leu Trp Asn His Met Asn Gln Glu Gly Arg Ala Val Ile Arg Gly Ser
150          290         295         300
151 Asn Thr Leu Val Glu Asn Leu Tyr Arg Lys His Cys Pro Arg Thr Tyr
152 305         310         315         320
153 Arg Asp Leu Ile Lys Gly Pro Glu Gly Ser Val Thr Gly Glu Leu Gly
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155 Pro Gly Asn Lys
156          340
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## RAW SEQUENCE LISTING

DATE: 05/15/2006

PATENT APPLICATION: US/10/563,540

TIME: 15:18:08

Input Set : A:\toya117.007apc.txt

Output Set: N:\CRF4\05152006\J563540.raw

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159 <212> TYPE: DNA  
160 <213> ORGANISM: Artificial  
162 <220> FEATURE:  
163 <223> OTHER INFORMATION: 5' primer for RT-PCR  
165 <400> SEQUENCE: 3  
166 gttttcctct tccctttgga tatga 25  
168 <210> SEQ ID NO: 4  
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170 <212> TYPE: DNA  
171 <213> ORGANISM: Artificial  
173 <220> FEATURE:  
174 <223> OTHER INFORMATION: 3' primer for RT-PCR  
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181 <212> TYPE: DNA  
182 <213> ORGANISM: Artificial  
184 <220> FEATURE:  
185 <223> OTHER INFORMATION: Probe for Quantative-PCR  
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188 tggtacaatc aaatcaacgc cagcgc 26

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/563,540

DATE: 05/15/2006  
TIME: 15:18:09

Input Set : A:\toyal17.007apc.txt  
Output Set: N:\CRF4\05152006\J563540.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/563,540

DATE: 05/15/2006

TIME: 15:18:09

Input Set : A:\toya117.007apc.txt

Output Set: N:\CRF4\05152006\J563540.raw

L:17 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD

L:33 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:31